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TITLE: QUARTZ OSCILLATOR  
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INVENTOR-INFORMATION:

NAME  
ONOE, MORIO

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NAME	COUNTRY
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ABSTRACT:

PURPOSE: To realize the enhanced the frequency-temperature characteristics with miniaturization of the quartz oscillator, by forming the main surface on the parallel plane with its normal line inclined by  $34^{\circ}45' \sim 35^{\circ}20'$  in the direction from the Y axis to the Z axis and then giving an inclination of  $2^{\circ} \sim 16^{\circ}$  to the side surface and in the direction of the Z axis.

CONSTITUTION: The direction of the length l of the quartz oscillator 101 is set to the direction of the X axis of the quartz. At the same time, the main surface formed on the parallel plane is set so that the normal line of the main plane may be in the range of  $34^{\circ}45' \sim 35^{\circ}20'$  from the Y

axis to the Z  
axis and within the Y and Z planes, and the angle of inclination of  
the side  
surface is inclined by  $2^\circ \sim 16^\circ$  in the direction of the Z  
axis. Here  
the lines shown by (r) and R form the natural surface of the  
oscillator 101,  
and as result the normal line of the main plane has an inclination of  
about  
 $3^\circ$  in the direction of the Y axis compared with the normal line  
on the  
surface (r) and within the YZ surface.

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